

## **BACKGROUND OF INVENTION**

As a retired physician of nearly half a century of experience who is self educated in some computer knowledge I wanted to innovate for health particularly relative to overweight and obesity. This is one innovation that connects health sciences and commerce with both the computer and Internet ages. The goal in the long term is to serve both health and commerce at the national as well as the global levels. Charging pennies for weight wireless transmission transaction would quickly transform the idea to unlimited education, advertising and other indirect potentials. Affordable global reaches for wireless weight recording and transmission and electronic payments will have a long-term impact on health, commerce and security. The use of prepayment for semiannual, annual or more transactions can be achieved easily in this electronic age. It can be done through appropriate bank accounts, credit card accounts or even coin operated machines.

With global economy evolving and progressing weight recording using WEIGHNTEL model system of merchandise before and after import and export or inland transportation is perceived as a major improvement over current procedures. In the case weighing human beings periodically for health the United States will be a leader in an initiative that spreads globally. One possible important social outcome is that it connects and brings people closer globally speaking over the important subjects related to weighing in relation to health and in relation to international commerce.

### **Meaningful weight recording and monitoring:**

Recording weights is already in use for many millennia whether for everyday consumer items, for science and research or for monitoring living beings or various agricultural or industrial products. The computer age and the Internet age and e-commerce have opened unlimited innovations that keep expanding. Keeping electronic weighed data or records and wireless transmission of weighed data or records is a good innovative common sense idea. It provides opportunity for confirmation of weights that belong to a specifically identified account at departure and destination points not only to local officials but at the central corporate or government levels as well. It also provides an instant detection of weight changes that provoke suspicion. This idea is so simple and sensible that it is not so readily obvious. Attempts by the author to write a book on innovative weight control over the past two decades provoked thinking about this among other innovative ideas.

### **Commercial Uses:**

- Upgrading of existing equipment, procedures and services may not be feasible or economic for small scales, but could be considered for large scales e.g. scales designed to weigh trucks or heavy weight shipping. The addition of the computer chip, software and transmission devices should not be difficult or costly.
- New procedures and services. Individuals, companies and other organizations and government entities that evaluate this invention will find innovative ways to improve products and services or start new ones. Shipping procedure for going out of the country or receiving in the country will be modified or new procedures started to achieve optimum production and distribution of goods and services. Airlines will find ways of improving services and security. In health care the tremendous advantages seen by the inventor who is an experienced retired physician may only become clear over time.

## **WEIGHNTEL**

### **Prior Art:**

Although wireless transmission is already in use for different purposes, no method of wireless weight transmission and no business plan that is analogous to the above-mentioned claims was found upon searching patents within a period slightly exceeding two decades.

## PREFERRED EMBODIMENTS OF INVENTION

- **Human health:** It goes without saying that unhealthy human weights contribute to many *often-serious* health problems. Clinical weight monitoring is a crucial part of weight history that could be significantly improved if it is standardized for birth to death monitoring with reliable weighing and recording methods [or from a starting date to end of life]. This invention provides a method that could prove to be very useful in this respect. If we examine several patient or healthy client records we are likely to see inconsistency and irregularities in weight history and weight records. This invention allows a clear display of an accurate record complete with graphs and updates. Using pennies to achieve a goal like that will certainly pay in terms of awareness by customers and health care providers alike. Periodic awareness of potential health problems observed by clients and preventive and restorative health care providers may prove to be extremely valuable over time. Having a graph showing a client's weight record or a patient's weight record can be very useful in many different ways of health education, research and innovation. Many fitness and weight control centers as well as individuals would probably significantly benefit from this innovation.
- **Animal health:** Agricultural private or government entities that care about weighing their products may benefit from this method because it helps quality control, accounting and legal control.
- **Agricultural productions:** Agricultural harvests, as well as agricultural industrial products can use this method for quality control and statistical purposes.
- **Industrial productions:** Major industrial plant outlets may find it beneficial to monitor product consistency and shipping using this method.
- **Wholesale outlets:** Weighing goods before shipping at outlets and at receiving stores could prove to be very useful for quality control as well as for legal control.
- **Transportation:** Weighing trucks or other carriers on the highways, or rail cars or any shipping or transportation vehicle for various purposes will never be the same by using this method!
- **Retail stores:** It is not inconceivable that a time might come to help customer satisfaction by monitoring retail weights for quality and legal control.
- **Research private and government, universities, statistics, media:** Data that are generated from wireless weight transmission could be instantly translated into extremely valuable statistics whether for commerce or for human health or otherwise. Universities and research institutions could see new methods of utilization of generated data or statistics or at least compare them to traditional methods.

## BRIEF DESCRIPTION OF DRAWINGS [attached file name: weighdiagram.doc]

A simple diagram illustrates the wireless transmitter being incorporated inside an ordinary scale. It goes without saying that varied devices and software that is specifically programmed for the business can be installed inside any new small or large scale whether custom built or otherwise.

## SPECIAL DETAILED NOTES

### Clinical weight monitoring:

**Principle:** To create in graphs and tables a reliable weight history from birth to death or from starting date to end of subscription, to be incorporated in medical records or to be available for other uses such as research or statistics. This requires continuous periodic updating of records to include changes in weight as they happen from the beginning to the end of life. This will be proven to be the most important principal use of the invention.

**Importance:** There is no doubt that overweight and obesity as well as underweight have the potential to cause severe health problems that can result in disability or death. It is the duty of every physician to record and follow the weight of his patients. WEIGHNTEL is a method for providing physicians and other health care providers with accurate updated weight record. This is going to have a positive impact on health care in general but particularly on preventive care. It is going to assist government and private authorities in both national and global continuous assessment of this epidemic. It is going to improve awareness among individuals and care providers on a continuous basis about weight and weight related problems.

**Possible recommendation:**

Every medical record, every health record for health or unhealthy people, every weight record for fitness or any other purpose should include updated data through WEIGHNTEL or other licensed systems. For the newborn using the method of WEIGHNTEL provides a great opportunity to have an accurate birth to death weight record. For adults that begin using the method of WEIGHNTEL a less accurate but still very useful birth to death record can be obtained. Taking a history plus obtaining possible weight records from pediatricians, primary care physicians, schools, the military, jobs or any possible source can help to fill the gap that was missed before subscribing to the method of WEIGHNTEL. It should be clear that for human weight accurate history periodic weighing is herein recommended to be weekly. This will translate in a nearly uninterrupted continuous record during the life of this human being. For bed-confined or disabled individuals weight records may be even more important. In these circumstances the weighing devices have to be manufactured to suit for each situation. One possibility would be to design a hospital bed with weighing device with WEIGHNTEL method. It goes without saying that this requires special manufacturing design and special software to run the program. For disabled individuals that are bed-confined at home or in nursing homes, the benefits of weekly weighing would be extremely helpful to their physicians.

**Use in seaports, airports, truck ports and train loading stations:**

Monitoring weights of objects before, during, and after transporting them is a wise sensible policy. Incorporating laser scanners, cameras or video cameras, X-ray or other detection devices e.g. Geiger counters to detect radioactivity might enhance security. The instant wireless data transmission can greatly save time and money as it can minimize manual work. Let us mention just one possible scenario for airport weighing procedures that might contribute to enhancing security. A weighing and detection station outside the airport security zone. An individual or a family is required to weigh himself, family and baggage using his pre-purchased electronic ticket or ticket number for id. The airline and security computers pick this transaction through wireless transmission. Another confirmatory transaction for the same ids is done at a suitable location inside the airport e.g. at security check or at the counter. Two or more confirmations as feasible can theoretically be done by placing weighing stops during automatic baggage transfer and at the boarding destination, even inside the plane's cargo bay. The likelihood of baggage exchange or smuggling anything inside the baggage will be enormously reduced particularly if each baggage unit id is scanned as well. The computer program would detect any significant change in weight and an alarm is sounded. Of course this does not prevent the use of metal detectors along the way.

Both the stores' computer and that of security factor in items purchased from inside of the airport if allowed. Although this scenario cannot be 100% proof it possibly contributes to minimizing hand searches and delays. Slots inside the cargo bay of airplanes could be equipped with scales that confirm both ticket ids unit ids and weight consistency.

In the case of weighing cargo before loading on trucks, ships, rail cars or cargo planes a similar scenario can be constructed. Each individual cargo box or package will have a scanable account id number as well as a unit id. Each weighing transaction is wirelessly transmitted before loading and at every weighing post along the way until a final wireless transaction is done upon delivery. This is simply stated a process of association of pickup and delivery and anywhere possible between pickup and delivery with data wireless transmission. Even in space travel continuous monitoring of weights, ids, date and time of each individual and each weighable unit on board can be very helpful.

**Benefits:**

Dr. Subhi Eldeiry  
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- Utilization of both Internet and wireless technologies is sure to modernize weighing businesses
- Job creation and stimulation of a good portion of national and global economies.
- A more meaningful approach to human weight recording that influences health and health care in general and weight related health problems in particular. The use of this model system in schools and in the military would provide a practical role model education for the entire society.
- Better quality control for businesses that use WEIGHNTEL scales
- Better security control for businesses that use WEIGHNTEL scales
- Better legal control for businesses that use WEIGHNTEL scales
- A potential for stimulation and advancement of other businesses that are not involved in weighing as advertising, education, research and media.